

JP 07-330773 (English translation – abstract) PORPHYRIN DERIVATIVE AND ITS USE

Bibliographic data

Mosaics

Original document

INPADOC legal status

Publication number: JP7330773 (A)

Publication date: 1995-12-19

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Classification:

- international: C07D487/22; A61K31/40; A61K49/00; A61K51/00; A61P35/00;
C07D487/00; A61K31/40; A61K49/00; A61K51/00; A61P35/00;
(IPC1-7); C07D487/22; A61K31/40; A61K49/00; A61K51/00

- European:

Application number: JP19940157791 19940607

Priority number(s): JP19940157791 19940607

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Abstract of JP 7330773 (A)

PURPOSE: To obtain a new porphyrin derivative condensable or bondable to a radioactive metal compound having short half-life, a ¹⁰⁵B compound for neutron capture therapy, a physiologically active substance such as carcinostatic agent, etc., and useful for the diagnosis and treatment of cancer.

CONSTITUTION: This porphyrin derivative or metal porphyrin compound (including its position isomer) is expressed by formula I [R1 is X, OH, OX, NH2 or NHX (X is a residue obtained by removing 2H or OH from a polyfunctional carboxylic acid); R2 is OH or Y (Y is an amino acid or amino alcohol residue); M is 2H, Zn or Mn], e.g. 2-hydroxyme thyl-4-vinyl-deuteroporphyrin. The derivative (a compound having C=O as R1) is produced by carrying out the photooxidation of protoporphyrin dimethyl ester, subjecting the product to reduction, oxidation and conversion to metal complex and hydrolyzing the resulting metal formylporphyrin.

